

SUN-4~12KH-3PH

- Up to 110% phase unbalanced output
- 10ms UPS-level backup switching
- 140–750V wide battery voltage range
- Max. efficiency up to 98.2%
- Maximum 200% backup output overload for 60s

Specification

Model	SUN-4KH-3PH	SUN-5KH-3PH	SUN-6KH-3PH	SUN-8KH-3PH	SUN-10KH-3PH	SUN-12KH-3PH
PV input						
Max.Input Power(W)	6400	8000	9600	12800	16000	19200
Max.DC Input Voltage(V)	1000					
Rated DC Input Voltage(V)	620					
MPPT Voltage Range(V)	150-850	150-850	200-850	200-850	200-850	200-850
Number of MPP Trackers	2					
Max. Input Current(A)	16/16					
Battery						
Battery Communication Mode	CAN/RS485					
Battery Voltage Range (V)	140-750					
Max. Charge/Discharge Current(A)	25/25					
Rated Current of Built-in Fuse(A)	63					
Output(Grid)						
Rated Output Power(W)**	4000	5000	6000	8000	10000	12000
Max. Output Power (W)	4400	5500	6600	8800	11000	13200
Max. Apparent Power(VA)	4400	5500	6600	8800	11000	13200
Max. Charging Power of Battery(W)	4000	5000	6000	8000	10000	12000
Grid Type**	3L/N/PE , 230/400V					
Rated AC Frequency (Hz)	50/60 45-55/55-65					
Power Factor	0.8 leading …0.8 lagging					
THDi @Rated Power	<3%					
Efficiency						
Max. Efficiency	98.10%	98.10%	98.10%	98.20%	98.20%	98.20%
Euro Efficiency	97.30%	97.30%	97.30%	97.40%	97.40%	97.40%
Max. Battery Charging Coversion Efficiency	97.20%	97.20%	97.20%	97.30%	97.30%	97.30%
Equipment Protection						
Integrated	DC Reverse Polarity Protection, BatteryInput Reverse Connection Protection, Insulation Resistance Protection, Surge Protection, Over-temperature Protection, Residual Current Protection, Anti-islanding Protection, AC Over-voltage Protection, Overload Protection, AC Short-circuit Protection					
General Data						
Dimension (mm)	550*410*175					
Weight (kg)	26~28					
Protection Degree	IP65					
Topology	Transformerless					
Operating Temperature Range (℃)	-30℃-60℃					
Relative Humidity (%)	0-100					
Operating Altitude(m)	4000(derating>3000)					
Type of Cooling	Natural Convection					
Noise (dB)	<25					
Display	LED/OLED					
Communication	WiFi/LAN(Optional)					